

## === Overview of 2017-2018 Web-site ===

Java Calculations - \*, /, +, -, Math.pow, Math.random

Java Variables - int, double, String, Integer.parseInt, Double.parseDouble  
ASCII, Unicode,

Bits and Bytes - binary, hexadecimal, kilo, mega, giga, tera

Times and Dates

String methods : .length(), .substring, .charAt, indexOf, .equals, .equalsIgnoreCase, .toUpperCase

Lists and Arrays : sorting, searching, sorting efficiency

[HL] Control Systems

OOP and Data Objects - fields, Constructor, new Object

GUI Controls

LinkedList - .add, .remove, .size, searching, sorting

Computer Organization - cross-platform, processors, CPU, machine language

Circuits and Logic Gates - AND, OR, XOR, NOT, NOR, NAND  
[HL] Binary Arithmetic - adding and carrying

Operating Systems - memory management, multi-tasking, device-drivers, bits and binary storage  
[HL] Future OS and Hardware

System Hardware

Software Design - User Experience, Visual Prototypes, Activity Stories

JTables

[HL] - ADTS, queues, stacks, 2-D arrays

[SL] - Algorithm Efficiency